PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220								
F-916 WO	ACTION	as well	as, where applicable, item 5 below.								
International application No.	International filing date (day/monti	n/year)	(Earliest) Priority Date (day/month/year)								
PCT/EP2005/050859	01/03/2005		02/03/2004								
Applicant											
TOTAL PETROCHEMICALS RESEARCH FELUY											
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.											
This International Search Report consists	of a total ofshe	eets.									
It is also accompanied by a copy of each prior art document cited in this report.											
Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.											
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).											
b. With regard to any nucleo	otide and/or amino acid sequence	disclosed i	n the international application, see Box No. I.								
2. Certain claims were four	nd unsearchable (See Box II).										
3. Unity of invention is lack	king (see Box III).										
4. With regard to the title ,											
X the text is approved as su	bmitted by the applicant.										
the text has been establish	the text has been established by this Authority to read as follows:										
5 NACAL was word to the objects											
With regard to the abstract, the text is approved as sul	hmitted by the applicant										
		is Authority	as it appears in Box No. IV. The applicant								
may, within one month fro	m the date of mailing of this internat	ional searcl	h report, submit comments to this Authority.								
6. With regard to the drawings,											
a. the figure of the drawings to be p	ublished with the abstract is Figure I	No									
as suggested by t	ne applicant.										
	Authority, because the applicant fa										
	Authority, because this figure bette	r characteri	izes the invention.								
b. none of the figures is to be	published with the abstract.										

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/050859 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 CO8F110/06 CO8F C08F4/64 C08F110/06 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 C08F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, CHEM ABS Data, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. WO 01/81436 A (EQUISTAR CHEM LP) 1-12 1 November 2001 (2001-11-01) page 4, line 16 - page 5, line 5 example 2 claim 1 Υ WELTON T: "Room-temperature ionic 1 - 12liquids. Solvents for synthesis and catalysis" CHEMICAL REVIEWS, AMERICAN CHEMICAL SOCIETY. EASTON, US. vol. 99, 1999, pages 2071-2083, XP002162959 ISSN: 0009-2665 cited in the application See section VI.A page 2074 Further documents are listed in the continuation of box C. Χ Patent family members are listed in annex. Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled document referring to an oral disclosure, use, exhibition or other means in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 24 May 2005 01/06/2005

Authorized officer

Parry, J

Name and mailing address of the ISA

1

European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/050859

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DUPONT JAIRTON ET AL: "Ionic liquid (molten salt) phase organometallic catalysis" CHEMICAL REVIEWS, AMERICAN CHEMICAL SOCIETY. EASTON, US, vol. 102, no. 10, October 2002 (2002-10), pages 3667-3692, XP002304708 ISSN: 0009-2665 cited in the application page 3672, paragraph 2	1-12
Α	US 2002/010291 A1 (MURPHY VINCE) 24 January 2002 (2002-01-24) cited in the application paragraph '0067!	1-12
Α	US 5 994 602 A (ABDUL-SADA ET AL) 30 November 1999 (1999-11-30) cited in the application column 6, line 12 - line 26	1-12
А	EP 0 558 187 A (BP CHEMICALS LIMITED) 1 September 1993 (1993-09-01) page 3, line 22 - line 25	1–12
Α	WO 00/32658 A (BAYER AG ; SYMYX TECHNOLOGIES INC (US)) 8 June 2000 (2000-06-08) example 3	1–12
A	WO 99/05100 A (ARMAND MICHEL; UNIV MONTREAL (CA); ACEP INC (CA); MICHOT CHRISTOPHE () 4 February 1999 (1999-02-04) examples 1-22 claim 39	1-12
	·	

1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2005/050859

Patent document cited in search report		Publication date		Patent family member(s)		Publication date	
WO 0181436	A	01-11-2001	AU WO	4534301 0181436		07-11-2001 01-11-2001	
US 2002010291	A1	24-01-2002	AU CA EP WO	2041100 2353493 1144468 0032658	A1 A1	19-06-2000 08-06-2000 17-10-2001 08-06-2000	
US 5994602	Α	30-11-1999	AU CN DE DE EP ES WO JP ZA		A ,C D1 T2 A1 T3 A1 T	29-08-1995 22-05-1996 27-11-1997 12-03-1998 24-01-1996 16-01-1998 17-08-1995 17-09-1996 12-08-1996	
EP 0558187	А	01-09-1993	DE DE EP JP JP US	69302117 69302117 0558187 3281088 5279422 5304615	T2 A1 B2 A	15-05-1996 29-08-1996 01-09-1993 13-05-2002 26-10-1993 19-04-1994	
WO 0032658	A	08-06-2000	US AU CA EP WO	2002010291 2041100 2353493 1144468 0032658	A A1 A1	24-01-2002 19-06-2000 08-06-2000 17-10-2001 08-06-2000	
WO 9905100	А	04-02-1999	CA DE DE EP WO JP US US	2266643 69818627 69818627 1388546 0928287 9905100 2001507043 6340716 2003195269 2002013381	D1 T2 A2 A1 A1 T B1 A1	04-02-1999 06-11-2003 12-08-2004 11-02-2004 14-07-1999 04-02-1999 29-05-2001 22-01-2002 16-10-2003 31-01-2002	